

**(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)**

**(19) World Intellectual Property  
Organization  
International Bureau**



**(43) International Publication Date**  
**19 February 2004 (19.02.2004)**

**PCT**

**(10) International Publication Number**  
**WO 2004/016004 A1**

**(51) International Patent Classification<sup>7</sup>:** **H04Q 3/00**

(21) International Application Number: PCT/IB2002/003113

**(22) International Filing Date:** 8 August 2002 (08.08.2002)

(25) Filing Language: Italian

**(26) Publication Language:** English

**(71) Applicant** (for all designated States except US): **TECHNOLUX HOLDING S.A.** [LU/LU]; 23, rue Aldringen, L-1118 Luxembourg (LU).

(72) Inventor; and

(75) **Inventor/Applicant (for US only): ALLEGRETTI, Claudio [IT/IT]; Viale Campari, 62/A, I-27100 Pavia (IT).**

(74) **Agents:** DE GREGORI, Antonella et al.; Ing. Barzano' & Zanardo Milano S.p.A., Via Borgonuovo, 10, I-20121 Milan (IT).

**(81) Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

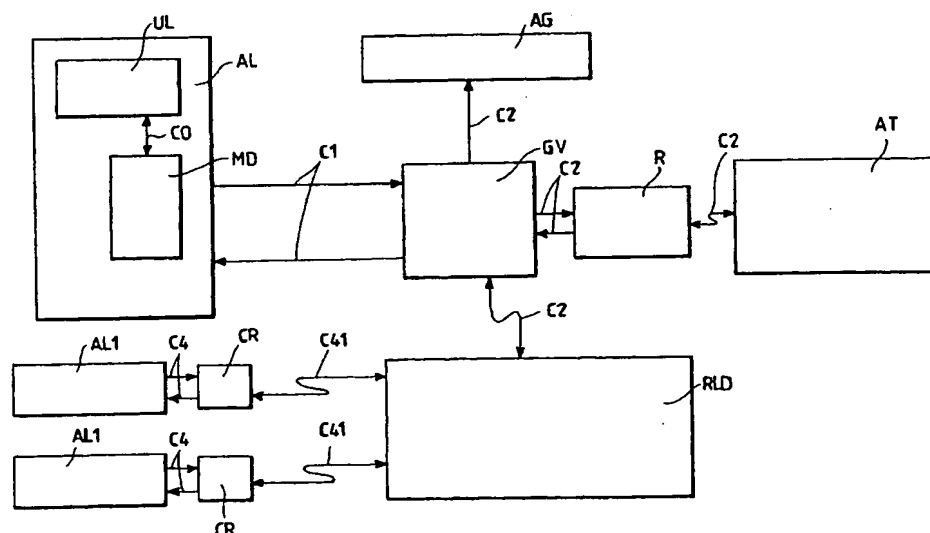
**(84) Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(54) Title:** TELECOMMUNICATIONS AND TELEPHONY NETWORK



**(57) Abstract:** An integrated telecommunications and telephony network (AT), which is independent from the conventional service companies, and can guarantee global connectivity (geographical, vocal, data, fax, video, points of access for dedicated mobile devices, Internet access) between users of the same network, as well as with users of networks which belong to other mobile or fixed telephony service companies, comprising a network structure which is controlled in accordance with an IP protocol (Internet Protocol), which guarantees the connectivity between the different local exchanges (CL) and local residents' exchanges, whereas at local level the user has standard telephone numeration available in order to access the service; the local user accesses the local exchanges (CL) by means of bi-directional satellite stations and/or sites.

**WO 2004/016004 A1**

# INTERNATIONAL SEARCH REPORT

International Application No  
PC1/1B 02/03113

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04Q3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04Q H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 117 214 A (TERAYON COMM SYSTEMS INC) 18 July 2001 (2001-07-18) abstract column 4, line 41 - column 5, line 1 column 6, line 9 - line 46 column 9, line 29 - column 10, line 6 figure 3	1-8, 10
Y		9
X	EP 0 812 085 A (NIPPON TELEGRAPH & TELEPHONE) 10 December 1997 (1997-12-10) abstract column 2, line 5 - line 38 column 5, line 13 - line 19 column 6, line 51 - column 7, line 12	1-3, 10
Y		9
	--- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

25 March 2003

Date of mailing of the international search report

01/04/2003

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Larcinese, C

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 02/03113

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 99 35811 A (ERICSSON TELEFON AB L M)  15 July 1999 (1999-07-15)  abstract  page 4, line 12 - line 26  page 6, line 14 -page 8, line 1  -----</p>	1-10

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 02/03113

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1117214	A	18-07-2001	EP 1117214 A2	18-07-2001
			US 2002044225 A1	18-04-2002
			US 2002059637 A1	16-05-2002
			US 2002019984 A1	14-02-2002
			US 2002031120 A1	14-03-2002
EP 0812085	A	10-12-1997	AU 714005 B2	16-12-1999
			AU 1171797 A	17-07-1997
			EP 0812085 A1	10-12-1997
			JP 3297055 B2	02-07-2002
			US 6009088 A	28-12-1999
			CN 1179250 A ,B	15-04-1998
			WO 9723977 A1	03-07-1997
WO 9935811	A	15-07-1999	AU 1992399 A	26-07-1999
			EP 1046271 A1	25-10-2000
			WO 9935811 A1	15-07-1999